

SWBAT: explain interference for sound

Jan 4-7:20 AM

Concept Sheet

~ 7 rows when we're done...

We'll fill in two terms (rows) today.

Concept	Meaning	Sym-bol	Units	Picture
<div>PITCH →</div> FREQUENCY	HOW MANY PER UNIT OF TIME $\text{FREQ} = \frac{\#}{\text{TIME}}$	$f$ $f = \frac{1}{T}$	hertz $\text{Hz} = \frac{1}{\text{sec}}$	
PERIOD	HOW MUCH TIME FOR ONE. PERIOD = $\frac{\text{TIME}}{\#}$	$T$ $T = \frac{1}{f}$	seconds sec.	
TRANSVERSE	WHEN THE MEDIUM VIBRATES ACROSS THE DIRECTION THE WAVE TRAVELS.			
LONGITUDINAL	WHEN THE MEDIUM VIBRATES ALONG THE DIRECTION THE WAVE TRAVELS.			
<div>INTENSITY →</div> AMPLITUDE	HOW FAR FROM THE MIDDLE.	$A$	meters m	
WAVELENGTH	HOW FAR FOR ONE "BACK & FORTH"	$\lambda$	meters m	
WAVESPEED	$\frac{\text{DISTANCE OF A WAVE}}{\text{TIME OF A WAVE}}$	$v$	$\frac{\text{meters}}{\text{second}}$ m/s	

Feb 18-6:50 AM

# Welcome!!!

H. Leslie Grebe

- \* Pick up:
  - worksheet
  - slip of paper (for later)

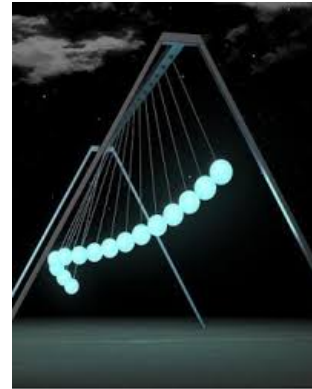
Opening Question:

- interference
- standing wave
- natural frequency
- resonance

Make-up test...

What's the difference???

SECA Physics  
Friday 8 May 2015



Centering

Sep 7-7:04 AM

Room 244 PED policy:  
Started Wed 5/6

Students will lock up their PEDs coming in and retrieve them on the way out.

**EXCEPTION:** If a student is passing, may have PED with them in class if RHR.

[tiescloud.net/schoolview](http://tiescloud.net/schoolview)



May 1-8:23 AM

Video name	Description	Is an example of:
1) Pendulum Wave		
2) Sound Board		
3) Water Experiment		

water strobe power junkies #2  
washer dukes of havoc #4

- [https://www.youtube.com/watch?v=7\\_AiV12XBbl](https://www.youtube.com/watch?v=7_AiV12XBbl)
- <https://www.youtube.com/watch?v=wwJAgRUBF4w>
- [https://www.youtube.com/watch?v=uENITuI5\\_JU](https://www.youtube.com/watch?v=uENITuI5_JU)

# Measuring the Rubens' tube: (didn't get to it...)

May 2-7:35 AM

## Outrageous Acts of Science

A show about viral videos and the science that makes them possible...

### "Washing Machine" Dukes of Havoc #4

1. Just watch
2. Read the questions
3. Watch again
4. Discuss
5. Watch a last time to catch anything you might have missed



Oct 4-7:27 AM

## Review - 3 kinds of instruments...

### Blue Man Group

 <https://www.youtube.com/watch?v=dOLBn8GKBIA>

 <https://www.youtube.com/watch?v=aEWEHJuowLA>

### PVC instrument

 <https://www.youtube.com/watch?v=0D2o8F2MOuI>

Fluteboxer, Nathan Lee

 <https://www.youtube.com/watch?v=CjcGd2kFLpk>

Dubstep beatboxer

 <https://www.youtube.com/watch?v=C46PEbXLYCs>

May 2-7:25 AM

### Daily 3 Questions

CP hmwk: None

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) The sound board with salt is an example of:

Standing waves

2) The pendulum wave balls are an example of:

Interference

3) What is different about each of the balls in a pendulum wave?

Length of string / natural frequency

Apr 25-7:25 AM